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July 30, 2019

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29211

RE: Duke Energy Carolinas, LLC – Monthly Fuel Cost Report and Base Load Power Plant Performance Report
Docket No. 1989-9-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in the above captioned docket, enclosed please find the following reports for the month of June 2019.

1. Monthly Fuel Cost Report for June 2019 (Exhibit A).

2. Base Load Power Plant Performance Report for June 2019 (Exhibit B).

Should you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Rebecca J. Dulin

Enclosures

cc: Ms. Dawn Hipp, Office Regulatory Staff
Mr. Scott Elliott, Elliott & Elliott, P.A.
Ms. Nanette Edwards, Office Regulatory Staff
Mr. Jeff Nelson, Office Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Ms. Heather Shirley Smith, Duke Energy

DUKE ENERGY CAROLINAS
SUMMARY OF MONTHLY FUEL REPORT

Line No.		June 2019
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$ 140,712,443
	MWH sales:	
2	Total system sales.	7,645,974
3	Less intersystem sales	104,511
4	Total sales less intersystem sales	7,541,463
5	Total fuel and fuel-related costs (¢/KWH) (line 1/line 4)	1.8659
6	Current fuel and fuel-related cost component (¢/KWH) (per Schedule 4, Line 2 + Line 10 + Line 18)	2.0913
	Generation Mix (MWH):	
	Fossil (by primary fuel type):	
7	Coal	1,966,588
8	Fuel Oil	11,604
9	Natural Gas - Combined Cycle	1,363,650
10	Natural Gas - Combustion Turbine	29,089
11	Natural Gas - Steam	15,149
12	Biogas	-
13	Total fossil	3,386,080
14	Nuclear 100%	5,222,493
15	Hydro - Conventional	252,311
16	Hydro - Pumped storage	(82,141)
17	Total hydro	170,170
18	Solar Distributed Generation	14,202
19	Total MWH generation	8,792,945
20	Less joint owners' portion - Nuclear	1,340,905
21	Less joint owners' portion - Combined Cycle	67,588
22	Adjusted total MWH generation	7,384,452

Note: Detail amounts may not add to totals shown due to rounding.

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DUKE ENERGY CAROLINAS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Fuel and fuel-related costs:	June 2019
Steam Generation - Account 501	
0501110 coal consumed - steam	$ 64,461,914
0501310 fuel oil consumed - steam	878,936
0501330 fuel oil light-off - steam	615,521
Total Steam Generation - Account 501	65,956,371
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	23,105,119
Other Generation - Account 547	
0547100, 0547124 natural gas consumed - Combustion Turbine	993,864
0547100, 0547124 natural gas capacity - Combustion Turbine	137,801
0547100 natural gas consumed - Steam	466,984
0547101 natural gas consumed - Combined Cycle	25,998,235
0547101 natural gas capacity - Combined Cycle	3,518,489
0547106 biogas consumed - Combined Cycle	-
0547200 fuel oil consumed - Combustion Turbine	46,307
Total Other Generation - Account 547	31,161,679
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	18,058,985
Fuel and fuel-related component of DERP purchases	30,158
PURPA purchased power capacity	2,502,503
DERP purchased power capacity	4,199
Total Purchased Power and Net Interchange - Account 555	20,595,845
Less:	
Fuel and fuel-related costs recovered through intersystem sales	2,508,085
Fuel in loss compensation	103,532
Solar Integration Charge	1,034
Total Fuel Credits - Account 447/456	2,612,651
Environmental Costs	
0509000, 0557451 emission allowance expense	376
0502020, 0502030, 0502040, 0502082, 0548020 reagent expense	2,386,449
0502080, 0502083, 0502090, 0502150 sorbent expense	149,390
Emission allowance gains	-
Less reagents expense recovered through intersystem sales - Account 447	21,302
Less emissions expense recovered through intersystem sales - Account 447	8,834
Total Environmental Component of Recovery	2,506,079
Total Fuel and Fuel-related Costs excluding DERP incremental costs	$ 140,712,443
DERP incremental costs	525,523
Total Fuel and Fuel-related Costs to be Recovered	$ 141,237,966

Notes: Detail amounts may not add to totals shown due to rounding.
Report reflects net ownership costs of jointly owned facilities.

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DUKE ENERGY CAROLINAS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

June 2019

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
Carolina Power & Light (DE Progress) - Emergency	$ (85,245)	-	-	$ (85,245)	-
Blue Ridge Electric Membership Corp.	1,236,810	$ 707,184	24,027	529,626	-
Haywood Electric	367,881	226,540	6,854	141,341	-
NCEMC	4,657	4,657	-	-	-
NCMPA	744,940	-	38,949	744,940	-
Piedmont Electric Membership Corp.	589,051	330,223	11,520	258,828	-
Piedmont Municipal Power Agency	129,006	-	7,709	129,006	-
PJM Interconnection, LLC.	(73,053)	-	-	(73,053)	-
South Carolina Electric & Gas Company / Dominion Energy	22,200	-	600	21,435	$ 765
Southern Company Services, Inc.	57,270	-	5,727	57,270	-
Town of Dallas	584	584	-	-	-
Town of Forest City	19,856	19,856	-	-	-
DE Progress - Native Load Transfer	6,198,671	-	341,596	6,185,609	13,062
DE Progress - Native Load Transfer Benefit	578,790	-	-	578,790	-
DE Progress - Fees	(106,474)	-	-	(106,474)	-
Generation Imbalance	(553,631)	-	(19,347)	(378,421)	(175,210)
Energy Imbalance - Purchases	106,552	-	15,244	41,466	65,086
Energy Imbalance - Sales	363,261	-	-	278,005	85,256
	$ 9,601,126	**$ 1,289,044**	**432,879**	**$ 8,323,123**	**$ (11,041)**
Act 236 PURPA Purchases					
Cherokee County Cogeneration Partners	$ 2,509,475	$ 1,386,879	35,255	$ 1,122,596	
Renewable Energy	6,416,240	817,587	113,504	5,598,653	
DERP	46,921	4,199	755	30,158	12,564
Other Qualifying Facilities	3,255,110	298,037	60,764	2,837,912	119,161
	$ 12,227,746	**$ 2,506,702**	**210,278**	**$ 9,589,319**	**$ 131,725**
Other Purchases	**$ 1,014**	**$ -**	**30**	**$ -**	**$ 1,014**
Total Purchased Power	**$ 21,829,886**	**$ 3,795,746**	**643,187**	**$ 17,912,442**	**$ 121,698**
Interchanges In					
Other Catawba Joint Owners	7,286,294	-	681,771	4,390,412	2,895,882
WS Lee Joint Owner	1,135,479	-	44,347	954,198	181,281
Total Interchanges In	8,421,774	-	726,118	5,344,610	3,077,164
Interchanges Out					
Other Catawba Joint Owners	(7,133,687)	(129,880)	(663,165)	(4,273,436)	(2,730,371)
Catawba- Net Negative Generation	-	-	-	-	-
WS Lee Joint Owner	(1,079,436)	-	(40,841)	(894,473)	(184,963)
Total Interchanges Out	(8,213,123)	(129,880)	(704,006)	(5,167,909)	(2,915,334)
Net Purchases and Interchange Power	**$ 22,038,537**	**$ 3,665,866**	**665,299**	**$ 18,089,143**	**$ 283,528**

NOTE: Detail amounts may not add to totals shown due to rounding.

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Exhibit A
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Schedule 4 Purchases

DUKE ENERGY CAROLINAS
INTERSYSTEM SALES*
SOUTH CAROLINA

JUNE 2019

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
SC Public Service Authority - Emergency	$ 29,200	-	292	$ 11,008	$ 18,192
SC Electric & Gas - Emergency	-	-	-	-	-
Market Based:					
Central Electric Power Cooperative, Inc.	458,000	$ 458,000	-	-	-
NCMPA	112,874	87,500	916	25,088	286
PJM Interconnection, LLC.	29,353	-	473	12,259	17,094
The Energy Authority	79,200	-	1,500	47,530	31,670
Other:					
DE Progress - Native Load Transfer Benefit	335,144	-	-	335,144	-
DE Progress - Native Load Transfer	2,089,646	-	99,583	2,084,583	5,063
Generation Imbalance	30,836	-	1,747	22,609	8,227
BPM Transmission	(89,907)	-			(89,907)
Total Intersystem Sales	**$ 3,074,346**	**$ 545,500**	**104,511**	**$ 2,538,221**	**$ (9,375)**

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

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Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
June 2019

Line No.			Residential	Commercial	Industrial	Total
1	Actual System kWh sales	Input				7,541,462,943
2	DERP Net Metered kWh generation	Input				10,992,414
3	Adjusted System kWh sales	L1 + L2				7,552,455,357
4	Actual S.C. Retail kWh sales	Input	579,501,697	492,400,764	781,943,362	1,853,845,823
5	DERP Net Metered kWh generation	Input	6,832,854	2,415,464	1,744,096	10,992,414
6	Adjusted S.C. Retail kWh sales	L4 + L5	586,334,551	494,816,228	783,687,458	1,864,838,237
	Base fuel component of recovery: non-capacity					
7	Incurred System base fuel - non-capacity expense	Input				$132,013,215
8	Eliminate avoided fuel benefit of S.C. net metering	Input				357,178
9	Adjusted Incurred System base fuel - non-capacity expense	L7 + L8				$132,370,393
10	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L9 / L3 * 100				1.7527
11	S.C. Retail portion of adjusted incurred system expense	L6 * L10 / 100	$10,276,570	$8,672,546	$13,735,535	$32,684,651
12	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(183,054)	(85,370)	(88,754)	(357,178)
13	S.C. Retail portion of incurred system expense	L11 + L12	$10,093,516	$8,587,176	$13,646,781	$32,327,473
14	Billed base fuel - non-capacity rate (¢/kWh)	Input	1.9648	1.9648	1.9648	1.9648
15	Billed base fuel - non-capacity revenue	L4 * L14 / 100	$11,386,049	$9,674,690	$15,363,623	$36,424,362
16	DERP NEM incentive - fuel component	Input	(77,914)	(36,336)	(37,777)	(152,027)
17	Adjusted S.C. billed base fuel - non-capacity revenue	L15 + L16	$11,308,135	$9,638,354	$15,325,846	$36,272,335
18	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L17 - L13	($1,214,619)	($1,051,178)	($1,679,065)	($3,944,862)
19	Adjustment	Input	-	-	-	-
20	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 + L19	($1,214,619)	($1,051,178)	($1,679,065)	($3,944,862)
	Base fuel component of recovery: capacity					
21	Incurred base fuel - capacity rates by class (¢/kWh)	Input	0.1339	0.0735	0.0481	0.0817
22	Incurred S.C. base fuel - capacity expense	L4 * L21 / 100	$775,905	$361,854	$376,199	$1,513,958
23	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.1274	0.1158	0.0901	0.1086
24	Billed S.C. base fuel - capacity revenue	L4 * L23 / 100	738,285	570,200	704,531	2,013,016
25	S.C. base fuel - capacity (over)/under recovery [See footnote]	L24 - L22	37,620	(208,346)	(328,332)	(499,058)
26	Adjustment	Input	-	-	-	-
27	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 + L26	$37,620	($208,346)	($328,332)	($499,058)
	Environmental component of recovery					
28	Incurred environmental rates by class (¢/kWh)	Input	0.0545	0.0299	0.0196	0.0332
29	Incurred S.C. environmental expense	L4 * L28 / 100	$315,724	$147,242	$153,079	$616,045
30	Billed environmental rates by class (¢/kWh)	Input	0.0166	0.0193	0.0168	0.0174
31	Billed S.C. environmental revenue	L4 * L30 / 100	96,197	95,033	131,366	322,596
32	S.C. environmental (over)/under recovery [See footnote]	L31 - L29	219,527	52,209	21,713	293,449
33	Adjustment	Input	-	-	-	-
34	Total S.C. environmental (over)/under recovery [See footnote]	L32 + L33	$219,527	$52,209	$21,713	$293,449

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Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
June 2019

Line No.			Residential	Commercial	Industrial	Total
	Distributed Energy Resource Program component of recovery: avoided costs					
35	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.0007	0.0004	0.0003	0.0005
36	Incurred S.C. DERP avoided cost expense	L4 * L35 / 100	$4,328	$2,019	$2,099	$8,446
37	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.0006	0.0005	0.0004	0.0005
38	Billed S.C. DERP avoided cost revenue	L4 * L37 / 100	3,477	2,462	3,128	9,067
39	S.C. DERP avoided cost (over)/under recovery [See footnote]	L38 - L36	851	(443)	(1,029)	(621)
40	Adjustment	Input	-	-	-	-
41	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 + L40	$851	($443)	($1,029)	($621)
	Distributed Energy Resource Program component of recovery: incremental costs					
42	Incurred S.C. DERP incremental expense	Input	$268,463	$125,201	$130,165	$523,829
43	Billed S.C. DERP incremental rates ($/account)	Input	$0.89	$4.28	$99.56	
44	Billed S.C. DERP incremental revenue	Input	435,725	318,766	146,901	901,392
45	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L42	(167,262)	(193,565)	(16,736)	(377,563)
46	Adjustment	Input	-	-	-	-
47	Total S.C. DERP incremental (over)/under recovery [See footnote]	L45 + L46	($167,262)	($193,565)	($16,736)	($377,563)
48	Total S.C. Retail (over)/under recovery [See footnote]	L20 + L27 + L34 + L41 + L47	(1,123,883)	(1,401,323)	(2,003,449)	(4,528,655)

Year 2018-2019

	Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Balance ending May 2018	$64,562,410				
	June 2018 - actual	68,657,779	1,313,984	1,104,598	1,676,787	4,095,369
	July 2018 - actual	74,109,473	1,918,193	1,509,942	2,023,559	5,451,694
	August 2018 - actual	79,557,480	1,778,046	1,439,863	2,230,098	5,448,007
	September 2018 - actual	78,314,056	(314,858)	(317,868)	(610,698)	(1,243,424)
_/2, _/3	October 2018 - actual	82,454,493	1,429,090	1,306,714	1,404,633	4,140,437
_/2	November 2018 - actual	84,389,411	569,756	493,825	871,337	1,934,918
	December 2018 - actual	88,123,264	1,360,141	913,578	1,460,134	3,733,853
_/3	January 2019 - actual	88,266,730	74,036	35,086	34,344	143,466
	February 2019 - actual	93,039,011	1,645,342	1,177,747	1,949,192	4,772,281
	March 2019 - actual	91,131,763	(565,660)	(496,983)	(844,605)	(1,907,248)
	April 2019 - actual	87,146,255	(1,034,478)	(1,048,872)	(1,902,158)	(3,985,508)
	May 2019 - actual	87,176,757	34,404	6,547	(10,449)	30,502
	June 2019 - actual	83,231,895	(1,214,619)	(1,051,178)	(1,679,065)	(3,944,862)

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Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
June 2019

Line No.						
	Year 2018-2019					
	Cumulative (over) / under recovery - BASE FUEL CAPACITY	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Beginning Balance	(910,631)				
	June 2018 - actual	(1,231,472)	(168,835)	(109,798)	(42,208)	(320,841)
	July 2018 - actual	(705,685)	97,201	127,214	301,372	525,787
	August 2018 - actual	(167,087)	148,770	144,110	245,718	538,598
	September 2018 - actual	(447,925)	(122,234)	(59,118)	(99,486)	(280,838)
_/2, _/3	October 2018 - actual	(768,992)	(155,607)	(165,705)	245	(321,067)
_/2	November 2018 - actual	(1,316,322)	(92,070)	(155,477)	(299,783)	(547,330)
	December 2018 - actual	(2,417,453)	(465,350)	(270,393)	(365,388)	(1,101,131)
	January 2019 - actual	(3,301,777)	(276,593)	(266,449)	(341,282)	(884,324)
	February 2019 - actual	(4,252,925)	(255,719)	(273,449)	(421,980)	(951,148)
	March 2019 - actual	(5,223,777)	(242,726)	(298,361)	(429,765)	(970,852)
	April 2019 - actual	(5,894,084)	(11,486)	(238,213)	(420,608)	(670,307)
	May 2019 - actual	(6,283,595)	146,654	(199,901)	(336,264)	(389,511)
	June 2019 - actual	(6,782,653)	37,620	(208,346)	(328,332)	(499,058)
	Year 2018-2019					
	Cumulative (over) / under recovery - ENVIRONMENTAL	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Beginning Balance	(1,461,871)				
	June 2018 - actual	(1,205,987)	146,842	32,175	76,867	255,884
	July 2018 - actual	(1,154,405)	48,770	(30,136)	32,948	51,582
	August 2018 - actual	(1,205,110)	23,971	(50,943)	(23,733)	(50,705)
	September 2018 - actual	(1,388,163)	126	(79,741)	(103,438)	(183,053)
_/2	October 2018 - actual	(1,458,759)	(2,312)	(60,262)	(8,022)	(70,596)
_/2	November 2018 - actual	(1,348,880)	80,334	29,032	513	109,879
	December 2018 - actual	(1,291,265)	38,565	18,548	502	57,615
	January 2019 - actual	(1,191,028)	101,872	10,400	(12,035)	100,237
	February 2019 - actual	(1,312,637)	(3,068)	(40,317)	(78,224)	(121,609)
	March 2019 - actual	(1,223,735)	105,076	7,752	(23,926)	88,902
	April 2019 - actual	(1,144,962)	111,893	4,409	(37,529)	78,773
	May 2019 - actual	(965,535)	166,717	23,363	(10,653)	179,427
	June 2019 - actual	(672,086)	219,527	52,209	21,713	293,449

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Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
June 2019

Line No.

	Year 2018-2019 **Cumulative (over) / under recovery - DERP AVOIDED COSTS**	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Beginning Balance	(24,303)				
	June 2018 - actual	(13,251)	9,165	2,683	(796)	11,052
	July 2018 - actual	(879)	10,304	2,796	(728)	12,372
	August 2018 - actual	10,664	9,627	2,710	(794)	11,543
	September 2018 - actual	23,085	10,480	3,062	(1,121)	12,421
_/2	October 2018 - actual	25,717	3,255	486	(1,109)	2,632
_/2	November 2018 - actual	18,004	(2,549)	(2,100)	(3,064)	(7,713)
	December 2018 - actual	9,149	(3,757)	(2,216)	(2,882)	(8,855)
	January 2019 - actual	237	(3,927)	(2,271)	(2,714)	(8,912)
	February 2019 - actual	(4,097)	(1,327)	(1,142)	(1,865)	(4,334)
	March 2019 - actual	(2,941)	1,614	65	(523)	1,156
	April 2019 - actual	(614)	2,567	288	(528)	2,327
	May 2019 - actual	(1,471)	990	(593)	(1,254)	(857)
	June 2019 - actual	(2,092)	851	(443)	(1,029)	(621)

	Year 2018-2019 **Cumulative (over) / under recovery - DERP INCREMENTAL COSTS**	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Balance ending May 2018	(966,265)				
	June 2018 - actual	(449,883)	289,414	95,385	131,583	516,382
	July 2018 - actual	85,285	297,559	99,538	138,071	535,168
	August 2018 - actual	643,476	306,707	106,165	145,319	558,191
	September 2018 - actual	1,162,309	263,870	107,060	147,903	518,833
_/2	October 2018 - actual	1,458,476	111,032	26,537	158,598	296,167
_/2	November 2018 - actual	1,459,229	(86,182)	(63,094)	150,029	753
	December 2018 - actual	1,471,614	(81,612)	(59,227)	153,224	12,385
	January 2019 - actual	1,432,376	9,232	(115,256)	66,786	(39,238)
	February 2019 - actual	1,344,867	(15,961)	(125,035)	53,487	(87,509)
	March 2019 - actual	1,366,838	40,294	(99,958)	81,635	21,971
	April 2019 - actual	(286,304)	(818,859)	(499,726)	(334,557)	(1,653,142)
	May 2019 - actual	(474,031)	(67,487)	(150,947)	30,707	(187,727)
	June 2019 - actual	(851,594)	(167,262)	(193,565)	(16,736)	(377,563)

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts. Under collections, or regulatory assets, are shown as positive amounts.

_/1 May 2018 ending balance reflects adjustments pursuant to the docket no. 2018-3-E directive. The total adjustment of $4,655 was made to the May ending balance

_/2 Reflects a prorated rate and prorated allocation factor for periods in which the approved rates changed.

_/3 Includes prior period adjustments.

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
JUNE 2019

Description	Allen Steam	Belews Creek Steam	Buck CC	Catawba Nuclear	Cliffside Steam - Dual Fuel	Dan River CC	Lee CC	Lee Steam/CT	Lincoln CT	Marshall Steam	McGuire Nuclear	Mill Creek CT	Oconee Nuclear	Rockingham CT	Current Month	Total 12 ME June 2019
Cost of Fuel Purchased ($)																
Coal	$3,374,337	$18,867,844			$13,584,739					$18,293,275					$54,120,195	$672,257,965
Oil	188,534	614,934	-		256,621	-	-	-	-	441,859		-		-	1,501,948	17,653,693
Gas - CC			$9,409,963			$9,648,523	$11,933,566								30,992,052	374,852,777
Gas - CT								(9)	$47,444			$2,031		$1,082,199	1,131,664	66,803,805
Gas - Steam					466,984			-							466,984	39,642,406
Biogas			-			26,708	-								26,708	3,132,712
Total	$3,562,871	$19,482,778	$9,409,963		$14,308,344	$9,675,231	$11,933,566	($9)	$47,444	$18,735,134		$2,031		$1,082,199	$88,239,551	$1,174,343,354
Average Cost of Fuel Purchased (¢/MBTU)																
Coal	286.01	277.69			273.05	-				282.54					278.62	343.60
Oil	1,417.36	1,393.61			1,393.69			-	-	1,391.73		-		-	1,396.01	917.69
Gas - CC			318.47			318.01	320.84								318.24	359.55
Gas - CT								-	351.70			2,115.43		324.06	325.63	340.71
Gas - Steam					333.51			-							333.51	381.26
Biogas			-		.	-	-								-	1,628.45
Weighted Average	298.62	284.89	318.47		278.72	318.89	320.84	-	351.70	287.95		2,115.43		324.06	296.83	353.59
Cost of Fuel Burned ($)																
Coal	$4,440,056	$18,954,970			$18,559,267	-	-	-		$22,507,621					$64,461,914	$606,101,856
Oil - CC			-			-	-								-	
Oil - Steam/CT	223,430	696,717			243,644			3,640	$42,668	330,666		-		-	1,540,764	17,346,157
Gas - CC			$9,409,963			$9,648,523	$11,933,566								30,992,052	374,852,778
Gas - CT								($9)	47,444			$2,031		$1,082,199	1,131,664	66,803,805
Gas - Steam					466,984			-							466,984	39,642,406
Biogas			-			26,708	-								26,708	3,132,712
Nuclear				$9,965,018							$10,122,256		$11,064,996		31,152,270	364,964,926
Total	$4,663,487	$19,651,687	$9,409,963	$9,965,018	$19,269,895	$9,675,231	$11,933,566	$3,630	$90,112	$22,838,287	$10,122,256	$2,031	$11,064,996	$1,082,199	$129,772,357	$1,472,844,685
Average Cost of Fuel Burned (¢/MBTU)																
Coal	363.30	324.65			336.03			-		352.70					339.90	336.86
Oil - CC															-	
Oil - Steam/CT	1,473.23	1,463.60			1,466.50			1,685.00	1,517.88	1,476.45		-		-	1,470.11	1,546.73
Gas - CC			318.47			318.01	320.84								318.24	359.41
Gas - CT								-	351.70			2,115.43		324.06	325.63	340.71
Gas - Steam					333.51			-							333.51	381.26
Biogas			-			-	-								-	1,628.45
Nuclear				59.04							59.52		58.47		58.99	59.82
Weighted Average	376.90	333.87	318.47	59.04	339.27	318.89	320.84	1,680.71	552.80	356.63	59.52	2,115.43	58.47	324.06	158.12	159.13
Average Cost of Generation (¢/kWh)																
Coal	4.26	3.14			3.13	-	-	-	-	3.38					3.28	3.48
Oil - CC			-			-	-								-	
Oil - Steam/CT	8.92	14.37			13.43	-	-		25.38	14.24		-		-	13.28	15.46
Gas - CC			2.28			2.30	2.25								2.27	3.41
Gas - CT								0.02	66.95					3.66	3.89	3.89
Gas - Steam					3.01				-						3.08	3.08
Biogas			-			-	-								-	11.65
Nuclear				0.60							0.60		0.59		0.60	0.60
Weighted Average	4.37	3.23	2.28	0.60	3.16	2.30	2.25	-	37.70	3.42	0.60		0.59	3.66	1.48	1.88

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DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
JUNE 2019

Description	Allen Steam	Belews Creek Steam	Buck CC	Catawba Nuclear	Cliffside Steam - Dual Fuel	Dan River CC	Lee CC	Lee Steam/CT	Lincoln CT	Marshall Steam	McGuire Nuclear	Mill Creek CT	Oconee Nuclear	Rockingham CT	Current Month	Total 12 ME June 2019
Burned MBTU's																
Coal	1,222,145	5,838,504			5,523,147			-		6,381,447					18,965,243	179,927,506
Oil - CC															-	-
Oil - Steam/CT	15,166	47,603			16,614			216	2,811	22,396		-		-	104,806	1,121,449
Gas - CC			2,954,783			3,034,013	3,719,481								9,708,277	104,295,255
Gas - CT								-	13,490			96		333,945	347,531	19,607,462
Gas - Steam					140,019			-							140,019	10,397,098
Biogas			-			-	-								-	192,874
Nuclear				16,879,565							17,005,545		18,923,087		52,808,197	609,997,579
Total	1,237,311	5,886,107	2,954,783	16,879,565	5,679,780	3,034,013	3,719,481	216	16,301	6,403,843	17,005,545	96	18,923,087	333,945	82,074,073	925,538,717
Net Generation (mWh)																
Coal	104,250	604,115			592,225					665,997					1,966,588	18,666,890
Oil - CC															-	
Oil - Steam/CT	2,505	4,849			1,814	-	-	(54)	168	2,323		-		-	11,604	110,746
Gas - CC			412,523			420,398	530,729	-							1,363,650	14,679,925
Gas - CT								(50)	71			(512)		29,580	29,089	1,736,748
Gas - Steam					15,527			(378)							15,149	1,031,685
Biogas			-			-	-								-	26,887
Nuclear 100%				1,660,481							1,692,657		1,869,355		5,222,493	60,395,661
Hydro (Total System)															170,170	2,428,108
Solar (Total System)															14,202	126,824
Total	106,755	608,964	412,523	1,660,481	609,566	420,398	530,729	(482)	239	668,320	1,692,657	(512)	1,869,355	29,580	8,792,945	99,203,574
Cost of Reagents Consumed ($)																
Ammonia		$367,784	$9,417		$102,850	$7,077	$11,802								$498,929	$3,044,008
Limestone	$91,208	498,480			783,740					$492,517					1,865,946	16,911,738
Sorbents	-	71,451								77,939					149,390	1,849,819
Urea	-									23,077					23,077	618,144
Re-emission Chemical		-													-	140,688
Dibasic Acid	-														-	-
Activated Carbon	-									-					-	84,948
Lime (water emissions)	-	-													-	16,707
Total	$91,208	$937,715	$9,417		$886,590	$7,077	$11,802			$593,533					$2,537,342	$22,666,112

Notes:
Detail amounts may not add to totals shown due to rounding.
Data is reflected at 100% ownership.
Schedule excludes in-transit and terminal activity.
Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.
Re-emission chemical reagent expense is not recoverable in NC.
Lime (water emissions) expense is not recoverable in SC.

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DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED CONSUMPTION AND INVENTORY REPORT
JUNE 2019

Description	Allen Steam	Belews Creek Steam	Buck CC	Cliffside Steam - Dual Fuel	Dan River CC	Lee CC	Lee Steam/CT	Lincoln CT	Marshall Steam	Mill Creek CT	Rockingham CT	Current Month	Total 12 ME June 2019
Coal Data:													
Beginning balance	287,682	936,155		418,569			-		950,592			2,592,997	2,009,975
Tons received during period	49,228	275,573		204,400					258,408			787,609	8,074,766
Inventory adjustments	-	(0)		0			-		0			0	(192,256)
Tons burned during period	52,264	234,670		228,259			-		255,253			770,446	7,282,323
Ending balance	284,646	977,058		394,710			-		953,747			2,610,161	2,610,161
MBTUs per ton burned	23.38	24.88		24.20			-		25.00			24.62	24.71
Cost of ending inventory ($/ton)	84.95	80.77		81.31			-		88.18			84.02	84.02
Oil Data:													
Beginning balance	88,178	192,517	-	181,036	-	-	676,126	9,759,761	293,288	4,366,782	3,238,190	18,795,878	18,862,178
Gallons received during period	96,390	319,748	-	133,428	-	-	-	-	230,064	-	-	779,630	8,417,750
Miscellaneous adjustments	-	(23,065)	-	(9,861)	-	-	-	-	-	-	-	(32,475)	(368,169)
Gallons burned during period	110,000	347,012		120,322	-	-	1,564	20,359	162,381	-	-	762,089	8,130,814
Ending balance	74,568	142,188	-	184,281	-	-	674,562	9,739,402	360,971	4,366,782	3,238,190	18,780,944	18,780,944
Cost of ending inventory ($/gal)	2.03	2.01	-	2.02	-	-	2.33	2.10	2.04	2.47	2.17	2.20	2.20
Natural Gas Data:													
Beginning balance													
MCF received during period			2,862,379	135,683	2,939,178	3,633,278	-	13,060		93	322,879	9,906,550	130,684,536
MCF burned during period			2,862,379	135,683	2,939,178	3,633,278	-	13,060		93	322,879	9,906,550	130,684,536
Ending balance													
Biogas Data:													
Beginning balance													
MCF received during period			-		-	-						-	187,144
MCF burned during period			-		-	-						-	187,144
Ending balance													
Limestone Data:													
Beginning balance	25,968	51,322		21,890					34,555			133,736	145,853
Tons received during period	-	13,640		16,003					13,888			43,531	404,268
Inventory adjustments	-	-		-					-			-	(14,991)
Tons consumed during period	1,973	11,839		15,766					13,287			42,864	400,728
Ending balance	23,996	53,123		22,127					35,156			134,403	134,403
Cost of ending inventory ($/ton)	46.24	38.21		44.53					37.47			40.61	40.61

	Qtr Ending June 2019	Total 12 ME June 2019
Ammonia Data:		
Beginning balance	1,492	1,523
Tons received during period	1,151	3,470
Tons consumed during period	793	3,144
Ending balance	1,850	1,850
Cost of ending inventory ($/ton)	503.35	503.35

Notes:
Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit and terminal activity.
Gas is burned as received; therefore, inventory balances are not maintained.

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Exhibit A
Schedule 6

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DUKE ENERGY CAROLINAS

ANALYSIS OF COAL PURCHASED

JUNE 2019

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ALLEN	SPOT	-	$ -	$ -
	CONTRACT	49,228	3,363,646	68.33
	FIXED TRANSPORTATION / ADJUSTMENTS	-	10,691	-
	TOTAL	49,228	3,374,337	68.54
BELEWS CREEK	SPOT	63,378	4,863,161	76.73
	CONTRACT	212,195	13,612,421	64.15
	FIXED TRANSPORTATION / ADJUSTMENTS	-	392,262	-
	TOTAL	275,573	18,867,844	68.47
CLIFFSIDE	SPOT	25,326	2,371,564	93.64
	CONTRACT	179,074	10,609,852	59.25
	FIXED TRANSPORTATION / ADJUSTMENTS	-	603,324	-
	TOTAL	204,400	13,584,739	66.46
MARSHALL	SPOT	51,592	3,854,978	74.72
	CONTRACT	206,816	13,552,319	65.53
	FIXED TRANSPORTATION / ADJUSTMENTS	-	885,978	-
	TOTAL	258,408	18,293,275	70.79
ALL PLANTS	SPOT	140,296	11,089,703	79.05
	CONTRACT	647,313	41,138,238	63.55
	FIXED TRANSPORTATION / ADJUSTMENTS	-	1,892,255	-
	TOTAL	787,609	$ 54,120,195	$ 68.71

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DUKE ENERGY CAROLINAS

ANALYSIS OF COAL QUALITY RECEIVED

JUNE 2019

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ALLEN	6.62	12.95	11,983	0.84
BELEWS CREEK	6.52	11.04	12,328	1.22
CLIFFSIDE	9.99	7.96	12,170	1.89
MARSHALL	6.53	9.92	12,528	1.65

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DUKE ENERGY CAROLINAS
ANALYSIS OF OIL PURCHASED
JUNE 2019

	ALLEN	BELEWS CREEK
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	96,390	319,748
TOTAL DELIVERED COST	$ 188,534	$ 614,934
DELIVERED COST/GALLON	$ 1.96	$ 1.92
BTU/GALLON	138,000	138,000

	CLIFFSIDE	MARSHALL
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	133,428	230,064
TOTAL DELIVERED COST	$ 256,621	$ 441,859
DELIVERED COST/GALLON	$ 1.92	$ 1.92
BTU/GALLON	138,000	138,000

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
July, 2018 - June, 2019
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Oconee 1	6,769,626	847	91.24	90.27
Oconee 2	7,588,916	848	102.16	99.99
Oconee 3	7,616,923	859	101.22	99.99
McGuire 1	9,282,211	1,158	91.50	89.77
McGuire 2	9,491,883	1,158	93.57	91.87
Catawba 1	9,504,129	1,160	93.53	92.99
Catawba 2	10,141,973	1,150	100.67	99.98

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
July, 2018 through June, 2019
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Buck CC	11	1,263,530	206	70.02	76.60
Buck CC	12	1,270,103	206	70.38	76.92
Buck CC	ST10	1,931,155	312	70.66	83.96
Buck CC	Block Total	4,464,788	724	70.40	79.86
Dan River CC	8	1,446,919	199	83.00	86.67
Dan River CC	9	1,428,879	199	81.97	86.21
Dan River CC	ST7	2,131,760	320	76.05	91.63
Dan River CC	Block Total	5,007,558	718	79.62	88.75
WS Lee CC	11	1,540,901	230	76.50	78.82
WS Lee CC	12	1,561,596	230	77.69	78.57
WS Lee CC	ST10	2,131,969	337	72.22	78.74
WS Lee CC	Block Total	5,234,466	797	75.03	78.70

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
July, 2018 through June, 2019

Baseload Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Belews Creek 1	4,454,693	1,110	45.81	84.27
Belews Creek 2	2,546,813	1,110	26.19	62.78
Marshall 3	2,416,504	658	41.92	79.79
Marshall 4	3,236,249	660	55.97	83.98

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
July, 2018 through June, 2019

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Cliffside 6	3,911,868	847	52.76	73.27
Marshall 1	889,261	380	26.71	84.63
Marshall 2	525,929	380	15.80	56.55

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
July, 2018 through June, 2019
Other Cycling Steam Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Allen	1	14,999	167	1.03	88.30
Allen	2	29,028	167	1.98	88.30
Allen	3	87,800	270	3.71	76.29
Allen	4	123,939	267	5.30	82.55
Allen	5	258,637	259	11.40	86.45
Cliffside	5	1,311,615	546	27.42	72.48
Lee	3	-1,823	173	0.00	50.63

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
July, 2018 through June, 2019
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Lee CT	29,082	96	96.66
Lincoln CT	17,343	1,565	90.75
Mill Creek CT	122,354	746	99.33
Rockingham CT	1,571,877	895	89.55

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
July, 2018 through June, 2019
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Conventional Hydroelectric Stations:			
Bear Creek	26,277	9.5	67.55
Bridgewater	126,900	31.5	94.23
Bryson	4,243	0.9	87.45
Cedar Cliff	30,553	6.8	98.99
Cedar Creek	206,288	45.0	98.74
Cowans Ford	361,313	324.0	66.48
Dearborn	219,957	42.0	86.89
Fishing Creek	224,415	50.0	83.28
Franklin	2,542	1.0	55.44
Gaston Shoals	14,927	4.5	97.51
Great Falls	-80	12.0	100.00
Keowee	112,514	152.0	94.93
Lookout Shoals	184,998	27.0	98.99
Mission	4,466	1.8	50.79
Mountain Island	241,186	62.0	87.66
Nantahala	277,018	50.0	91.58
Ninety-Nine Islands	100,168	15.2	97.10
Oxford	143,095	40.0	69.94
Queens Creek	5,991	1.4	98.31
Rhodhiss	127,079	33.4	96.94
Tennessee Creek	36,385	9.8	72.68
Thorpe	115,436	19.7	94.26
Tuckasegee	10,518	2.5	95.56
Tuxedo	31,132	6.4	97.43
Wateree	415,782	85.0	86.41
Wylie	118,411	72.0	26.32
Pumped Storage Hydroelectric Stations:			
Gross Generation			
Bad Creek	2,214,241	1,360.0	95.85
Jocassee	1,109,052	780.0	90.49
Energy for Pumping			
Bad Creek	-2,827,236		
Jocassee	-1,209,463		
Net Generation			
Bad Creek	-612,995		
Jocassee	-100,411		

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

Period: June, 2019

Station	Unit	Date of Outage	Duration of Outage	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Action Taken
Oconee	1	None					
	2	None					
	3	None					
McGuire	1	None					
	2	None					
Catawba	1	None					
	2	None					

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
June 2019

Belews Creek Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
1	6/7/2019 11:14:00 PM To 6/10/2019 5:02:00 PM	Sch	3440	High Pressure Heater Tube Leaks	1B1 FWH tube leak.	
2	6/28/2019 3:52:00 AM To 6/28/2019 12:00:00 PM	Unsch	4099	Other High Pressure Turbine Problems	Had to trip U2 due to HP Turbine Diff Expansion limit	

Buck Combined Cycle Station

No Outages at Baseload Units During the Month.

Dan River Combined Cycle Station

No Outages at Baseload Units During the Month.

Marshall Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
3	6/5/2019 2:51:00 AM To 6/6/2019 6:00:00 PM	Sch	3611	Switchyard Circuit Breakers	PCB 18 Comissioning	
3	6/6/2019 6:00:00 PM To 6/7/2019 6:00:00 PM	Sch	0894	Bottom Ash Piping and Valves	Bottom Ash Piping Repairs	
4	6/1/2019 12:12:00 AM To 6/2/2019 9:24:00 PM	Sch	0891	Bottom Ash Hoppers (Including Gates)	Bottom Ash Hopper Access Door and Seal Trough supply Piping Repairs	
4	6/3/2019 1:13:00 AM To 6/3/2019 5:13:00 AM	Unsch	1799	Other Boiler Control and Instrumentation Problems	Firing Rate Control Issue-MFT High Waterwall Temperature	

WS Lee Combined Cycle

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
WS Lee CC GT 11	6/15/2019 1:02:00 PM To 6/15/2019 5:01:00 PM	Unsch	5160	Gas Turbine - Cooling And Seal Air System	Rotor air cooler temperature trip	

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

June 2019
Oconee Nuclear Station

	Unit 1		Unit 2		Unit 3	
(A) MDC (mW)	847		848		859	
(B) Period Hours	720		720		720	
(C) Net Gen (mWh) and Capacity Factor (%)	619,300	101.55	625,407	102.43	624,648	101.00
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00	224	0.04	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-9,460	-1.55	-15,071	-2.47	-6,168	-1.00
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00	0	0.00
(J) Net mWh Possible in Period	609,840	100.00%	610,560	100.00%	618,480	100.00%
(K) Equivalent Availability (%)		100.00		99.96		100.00
(L) Output Factor (%)		101.55		102.43		101.00
(M) Heat Rate (BTU/NkWh)		10,186		10,077		10,106

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

June 2019
McGuire Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1158		1158	
(B) Period Hours	720		720	
(C) Net Gen (mWh) and Capacity Factor (%)	849,100	101.84	843,557	101.18
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	374	0.04	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-15,714	-1.88	-9,797	-1.18
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	833,760	100.00%	833,760	100.00%
(K) Equivalent Availability (%)		99.96		100.00
(L) Output Factor (%)		101.84		101.18
(M) Heat Rate (BTU/NkWh)		10,001		10,093

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

June 2019
Catawba Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1160		1150	
(B) Period Hours	720		720	
(C) Net Gen (mWh) and Capacity Factor (%)	837,480	100.27	823,001	99.40
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	365	0.04	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-2,645	-0.31	4,999	0.60
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	835,200	100.00%	828,000	100.00%
(K) Equivalent Availability (%)		99.96		100.00
(L) Output Factor (%)		100.27		99.40
(M) Heat Rate (BTU/NkWh)		10,161		10,170

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
June 2019

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	720	720
(C) Net Generation (mWh)	370,923	238,041
(D) Capacity Factor (%)	46.41	29.78
(E) Net mWh Not Generated due to Full Scheduled Outages	73,038	0
(F) Scheduled Outages: percent of Period Hrs	9.14	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	9,028
(J) Forced Outages: percent of Period Hrs	0.00	1.13
(K) Net mWh Not Generated due to Partial Forced Outages	477	1,713
(L) Forced Derates: percent of Period Hrs	0.06	0.21
(M) Net mWh Not Generated due to Economic Dispatch	354,762	550,418
(N) Economic Dispatch: percent of Period Hrs	44.39	68.87
(O) Net mWh Possible in Period	799,200	799,200
(P) Equivalent Availability (%)	90.80	98.66
(Q) Output Factor (%)	64.45	55.61
(R) Heat Rate (BTU/NkWh)	9,403	10,075

Notes:

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
June 2019

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	206	206	312	724
(B) Period Hrs	720	720	720	720
(C) Net Generation (mWh)	118,501	119,232	174,790	412,523
(D) Capacity Factor (%)	79.90	80.39	77.81	79.14
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	20,160	20,160	0	40,320
(H) Scheduled Derates: percent of Period Hrs	13.59	13.59	0.00	7.73
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	9,659	8,928	49,850	68,437
(N) Economic Dispatch: percent of Period Hrs	6.51	6.02	22.19	13.13
(O) Net mWh Possible in Period	148,320	148,320	224,640	521,280
(P) Equivalent Availability (%)	86.41	86.41	100.00	92.27
(Q) Output Factor (%)	80.75	80.39	77.81	79.38
(R) Heat Rate (BTU/NkWh)	10,598	10,398	2,243	7,000

Notes:

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
June 2019

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	199	199	320	718
(B) Period Hrs	720	720	720	720
(C) Net Generation (mWh)	121,297	120,067	179,034	420,398
(D) Capacity Factor (%)	84.66	83.80	77.71	81.32
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	20,160	20,160	0	40,320
(H) Scheduled Derates: percent of Period Hrs	14.07	14.07	0.00	7.80
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	1,823	3,053	51,366	56,242
(N) Economic Dispatch: percent of Period Hrs	1.27	2.13	22.29	10.88
(O) Net mWh Possible in Period	143,280	143,280	230,400	516,960
(P) Equivalent Availability (%)	85.93	85.93	100.00	92.20
(Q) Output Factor (%)	84.66	84.77	77.71	81.58
(R) Heat Rate (BTU/NkWh)	10,747	10,753	2,214	7,115

Notes:

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
June 2019

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	720	720
(C) Net Generation (mWh)	205,217	301,553
(D) Capacity Factor (%)	43.32	63.46
(E) Net mWh Not Generated due to Full Scheduled Outages	41,553	29,832
(F) Scheduled Outages: percent of Period Hrs	8.77	6.28
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	2,640
(J) Forced Outages: percent of Period Hrs	0.00	0.56
(K) Net mWh Not Generated due to Partial Forced Outages	0	23,120
(L) Forced Derates: percent of Period Hrs	0.00	4.87
(M) Net mWh Not Generated due to Economic Dispatch	226,990	118,055
(N) Economic Dispatch: percent of Period Hrs	47.91	24.84
(O) Net mWh Possible in Period	473,760	475,200
(P) Equivalent Availability (%)	91.23	88.30
(Q) Output Factor (%)	69.04	68.11
(R) Heat Rate (BTU/NkWh)	9,591	9,402

Notes:

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- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
June 2019

WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	237	236	337	810
(B) Period Hrs	720	720	720	720
(C) Net Generation (mWh)	156,196	158,936	215,597	530,729
(D) Capacity Factor (%)	91.54	93.54	88.85	91.00
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	17,280	17,280
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	7.12	2.96
(I) Net mWh Not Generated due to Full Forced Outages	944	0	0	944
(J) Forced Outages: percent of Period Hrs	0.55	0.00	0.00	0.16
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	13,500	10,984	9,763	34,247
(N) Economic Dispatch: percent of Period Hrs	7.91	6.46	4.02	5.87
(O) Net mWh Possible in Period	170,640	169,920	242,640	583,200
(P) Equivalent Availability (%)	99.45	100.00	92.88	96.88
(Q) Output Factor (%)	93.51	93.54	88.85	91.57
(R) Heat Rate (BTU/NkWh)	10,440	10,441	2,297	7,132

Notes:

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Duke Energy Carolinas
Intermediate Power Plant Performance Review Plan
June 2019

		Cliffside Station Cliffside 6
(A)	**MDC (mW)**	849
(B)	**Period Hrs**	720
(C)	**Net Generation (mWh)**	464,250
(D)	**Net mWh Possible in Period**	611,280
(E)	**Equivalent Availability (%)**	98.71
(F)	**Output Factor (%)**	75.95
(G)	**Capacity Factor (%)**	75.95

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

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Duke Energy Carolinas
Peaking Power Plant Performance
Review Plan
June 2019

		Cliffside Station Unit 5
(A)	**MDC (mW)**	546
(B)	**Period Hrs**	720
(C)	**Net Generation (mWh)**	145,316
(D)	**Net mWh Possible in Period**	393,120
(E)	**Equivalent Availability (%)**	78.59
(F)	**Output Factor (%)**	57.87
(G)	**Capacity Factor (%)**	36.96

Notes:

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

July 2018 - June 2019
Oconee Nuclear Station

	Unit 1		Unit 2		Unit 3	
(A) MDC (mW)	847		848		859	
(B) Period Hours	8760		8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	6,769,626	91.24	7,588,916	102.16	7,616,923	101.22
(D) Net mWh Not Gen due to Full Schedule Outages	524,378	7.07	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	29,850	0.40	371	0.00	381	0.01
(F) Net mWh Not Gen due to Full Forced Outages	151,811	2.05	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-55,944	-0.76	-160,807	-2.16	-92,464	-1.23
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00	0	0.00
(J) Net mWh Possible in Period	7,419,720	100.00%	7,428,480	100.00%	7,524,840	100.00%
(K) Equivalent Availability (%)		90.27		99.99		99.99
(L) Output Factor (%)		100.39		102.16		101.22
(M) Heat Rate (BTU/NkWh)		10,233		10,115		10,079

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

July 2018 - June 2019
McGuire Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1158		1158	
(B) Period Hours	8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	9,282,211	91.50	9,491,883	93.57
(D) Net mWh Not Gen due to Full Schedule Outages	687,852	6.78	791,628	7.80
* (E) Net mWh Not Gen due to Partial Scheduled Outages	67,222	0.66	22,035	0.22
(F) Net mWh Not Gen due to Full Forced Outages	165,690	1.63	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-58,895	-0.57	-161,466	-1.59
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	10,144,080	100.00%	10,144,080	100.00%
(K) Equivalent Availability (%)		90.27		91.87
(L) Output Factor (%)		99.91		101.49
(M) Heat Rate (BTU/NkWh)		10,028		10,034

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

July 2018 - June 2019
Catawba Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1160		1150	
(B) Period Hours	8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	9,504,129	93.53	10,141,973	100.67
(D) Net mWh Not Gen due to Full Schedule Outages	682,776	6.72	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	45,944	0.45	1,571	0.02
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-71,249	-0.70	-69,544	-0.69
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	10,161,600	100.00%	10,074,000	100.00%
(K) Equivalent Availability (%)		92.99		99.99
(L) Output Factor (%)		100.27		100.67
(M) Heat Rate (BTU/NkWh)		10,104		10,039

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
July, 2018 through June, 2019

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	4,454,693	2,546,813
(D) Capacity Factor (%)	45.81	26.19
(E) Net mWh Not Generated due to Full Scheduled Outages	1,303,344	3,387,350
(F) Scheduled Outages: percent of Period Hrs	13.40	34.84
(G) Net mWh Not Generated due to Partial Scheduled Outages	2,443	14,669
(H) Scheduled Derates: percent of Period Hrs	0.03	0.15
(I) Net mWh Not Generated due to Full Forced Outages	86,672	99,031
(J) Forced Outages: percent of Period Hrs	0.89	1.02
(K) Net mWh Not Generated due to Partial Forced Outages	137,389	117,833
(L) Forced Derates: percent of Period Hrs	1.41	1.21
(M) Net mWh Not Generated due to Economic Dispatch	3,739,059	3,557,905
(N) Economic Dispatch: percent of Period Hrs	38.45	36.59
(O) Net mWh Possible in Period	9,723,600	9,723,600
(P) Equivalent Availability (%)	84.27	62.78
(Q) Output Factor (%)	73.03	63.95
(R) Heat Rate (BTU/NkWh)	9,376	9,751

Notes:

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- Footnote: (R) Includes Light Off BTU's

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
July, 2018 through June, 2019

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	206	206	312	724
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,263,530	1,270,103	1,931,155	4,464,788
(D) Capacity Factor (%)	70.02	70.38	70.66	70.40
(E) Net mWh Not Generated due to Full Scheduled Outages	295,404	292,599	414,310	1,002,313
(F) Scheduled Outages: percent of Period Hrs	16.37	16.21	15.16	15.80
(G) Net mWh Not Generated due to Partial Scheduled Outages	123,237	123,923	23,686	270,846
(H) Scheduled Derates: percent of Period Hrs	6.83	6.87	0.87	4.27
(I) Net mWh Not Generated due to Full Forced Outages	3,639	0	0	3,639
(J) Forced Outages: percent of Period Hrs	0.20	0.00	0.00	0.06
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	277	277
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.01	0.00
(M) Net mWh Not Generated due to Economic Dispatch	118,749	117,935	363,691	600,376
(N) Economic Dispatch: percent of Period Hrs	6.58	6.54	13.31	9.47
(O) Net mWh Possible in Period	1,804,560	1,804,560	2,733,120	6,342,240
(P) Equivalent Availability (%)	76.60	76.92	83.96	79.86
(Q) Output Factor (%)	84.39	84.64	83.62	84.12
(R) Heat Rate (BTU/NkWh)	10,212	9,963	2,449	6,783

Notes:

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- Footnote: (R) Includes Light Off BTU's

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
July, 2018 through June, 2019

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	199	199	320	718
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,446,919	1,428,879	2,131,760	5,007,558
(D) Capacity Factor (%)	83.00	81.97	76.05	79.62
(E) Net mWh Not Generated due to Full Scheduled Outages	89,444	97,842	145,648	332,934
(F) Scheduled Outages: percent of Period Hrs	5.13	5.61	5.20	5.29
(G) Net mWh Not Generated due to Partial Scheduled Outages	134,801	134,191	8,514	277,506
(H) Scheduled Derates: percent of Period Hrs	7.73	7.70	0.30	4.41
(I) Net mWh Not Generated due to Full Forced Outages	8,139	8,338	14,331	30,808
(J) Forced Outages: percent of Period Hrs	0.47	0.48	0.51	0.49
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	66,235	66,235
(L) Forced Derates: percent of Period Hrs	0.00	0.00	2.36	1.05
(M) Net mWh Not Generated due to Economic Dispatch	63,937	73,990	436,712	574,640
(N) Economic Dispatch: percent of Period Hrs	3.67	4.24	15.58	9.14
(O) Net mWh Possible in Period	1,743,240	1,743,240	2,803,200	6,289,680
(P) Equivalent Availability (%)	86.67	86.21	91.63	88.75
(Q) Output Factor (%)	88.08	88.12	80.85	84.86
(R) Heat Rate (BTU/NkWh)	10,622	10,618	2,391	7,116

Notes:

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- Footnote: (R) Includes Light Off BTU's

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
July, 2018 through June, 2019

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	2,416,504	3,236,249
(D) Capacity Factor (%)	41.92	55.97
(E) Net mWh Not Generated due to Full Scheduled Outages	554,124	738,078
(F) Scheduled Outages: percent of Period Hrs	9.61	12.77
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	360
(H) Scheduled Derates: percent of Period Hrs	0.00	0.01
(I) Net mWh Not Generated due to Full Forced Outages	608,990	114,477
(J) Forced Outages: percent of Period Hrs	10.57	1.98
(K) Net mWh Not Generated due to Partial Forced Outages	1,983	73,528
(L) Forced Derates: percent of Period Hrs	0.03	1.27
(M) Net mWh Not Generated due to Economic Dispatch	2,182,479	1,618,908
(N) Economic Dispatch: percent of Period Hrs	37.86	28.00
(O) Net mWh Possible in Period	5,764,080	5,781,600
(P) Equivalent Availability (%)	79.79	83.98
(Q) Output Factor (%)	67.06	72.14
(R) Heat Rate (BTU/NkWh)	9,709	9,541

Notes:

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
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WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	230	230	337	797
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,540,901	1,561,596	2,131,969	5,234,466
(D) Capacity Factor (%)	76.50	77.69	72.22	75.03
(E) Net mWh Not Generated due to Full Scheduled Outages	280,366	279,636	394,998	955,000
(F) Scheduled Outages: percent of Period Hrs	13.92	13.91	13.38	13.69
(G) Net mWh Not Generated due to Partial Scheduled Outages	42,432	40,397	86,598	169,427
(H) Scheduled Derates: percent of Period Hrs	2.11	2.01	2.93	2.43
(I) Net mWh Not Generated due to Full Forced Outages	104,107	111,259	145,865	361,230
(J) Forced Outages: percent of Period Hrs	5.17	5.54	4.94	5.18
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	173	173
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.01	0.00
(M) Net mWh Not Generated due to Economic Dispatch	46,476	17,052	192,518	256,045
(N) Economic Dispatch: percent of Period Hrs	2.31	0.85	6.52	3.67
(O) Net mWh Possible in Period	2,014,282	2,009,939	2,952,120	6,976,341
(P) Equivalent Availability (%)	78.82	78.57	78.74	78.70
(Q) Output Factor (%)	96.49	97.72	89.87	94.02
(R) Heat Rate (BTU/NkWh)	10,337	10,247	2,522	7,127

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Duke Energy Carolinas
Intermediate Power Plant
Performance Review Plan
July, 2018 through June, 2019

Cliffside Station

Units	Unit 6
(A) MDC (mW)	847
(B) Period Hrs	8,760
(C) Net Generation (mWh)	3,911,868
(D) Net mWh Possible in Period	7,415,155
(E) Equivalent Availability (%)	73.27
(F) Output Factor (%)	76.48
(G) Capacity Factor (%)	52.76

Notes:

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Duke Energy Carolinas
Peaking Power Plant
Performance Review Plan
July, 2018 through June, 2019

Cliffside Station

Units	Unit 5
(A) MDC (mW)	546
(B) Period Hrs	8,760
(C) Net Generation (mWh)	1,311,615
(D) Net mWh Possible in Period	4,782,960
(E) Equivalent Availability (%)	70.28
(F) Output Factor (%)	67.27
(G) Capacity Factor (%)	27.42

Notes:

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Duke Energy Carolinas
Outages for 100 mW or Larger Units
June, 2019

Unit Name	Capacity Rating (mW)	Full Outage Hours		
		Scheduled	Unscheduled	Total
Oconee 1	847	0.00	0.00	0.00
Oconee 2	848	0.00	0.00	0.00
Oconee 3	859	0.00	0.00	0.00
McGuire 1	1,158	0.00	0.00	0.00
McGuire 2	1,158	0.00	0.00	0.00
Catawba 1	1,160	0.00	0.00	0.00
Catawba 2	1,150	0.00	0.00	0.00

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Duke Energy Carolinas
Outages for 100 mW or Larger Units
June 2019

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Allen Steam 1	167	5.00	0.00	5.00
Allen Steam 2	167	0.00	0.00	0.00
Allen Steam 3	270	0.00	0.00	0.00
Allen Steam 4	267	0.00	0.00	0.00
Allen Steam 5	259	18.17	0.00	18.17
Belews Creek Steam 1	1,110	65.80	0.00	65.80
Belews Creek Steam 2	1,110	0.00	8.13	8.13
Buck CC 11	206	0.00	0.00	0.00
Buck CC 12	206	0.00	0.00	0.00
Buck CC ST10	312	0.00	0.00	0.00
Cliffside Steam 5	546	131.15	0.00	131.15
Cliffside Steam 6	849	0.00	0.00	0.00
Dan River CC 8	199	0.00	0.00	0.00
Dan River CC 9	199	0.00	0.00	0.00
Dan River CC ST7	320	0.00	0.00	0.00
Lee Steam 3	173	0.00	0.00	0.00
Marshall Steam 1	380	241.50	69.75	311.25
Marshall Steam 2	380	0.00	238.32	238.32
Marshall Steam 3	658	63.15	0.00	63.15
Marshall Steam 4	660	45.20	4.00	49.20
Rockingham CT1	179	0.00	0.00	0.00
Rockingham CT2	179	10.00	0.00	10.00
Rockingham CT3	179	0.00	0.00	0.00
Rockingham CT4	179	27.80	0.00	27.80
Rockingham CT5	179	0.00	0.00	0.00

Notes:

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Duke Energy Carolinas
Outages for 100 mW or Larger Units
June 2019

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
WS Lee CC 11	237	0.00	3.98	3.98
WS Lee CC 12	236	0.00	0.00	0.00
WS Lee CC ST 10	337	0.00	0.00	0.00

Notes:

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